

## **Heliophysics Subcommittee Meeting, July 1, 2015**

10:00 MMS Update/GI Funding

B. Paterson, NASA HQ

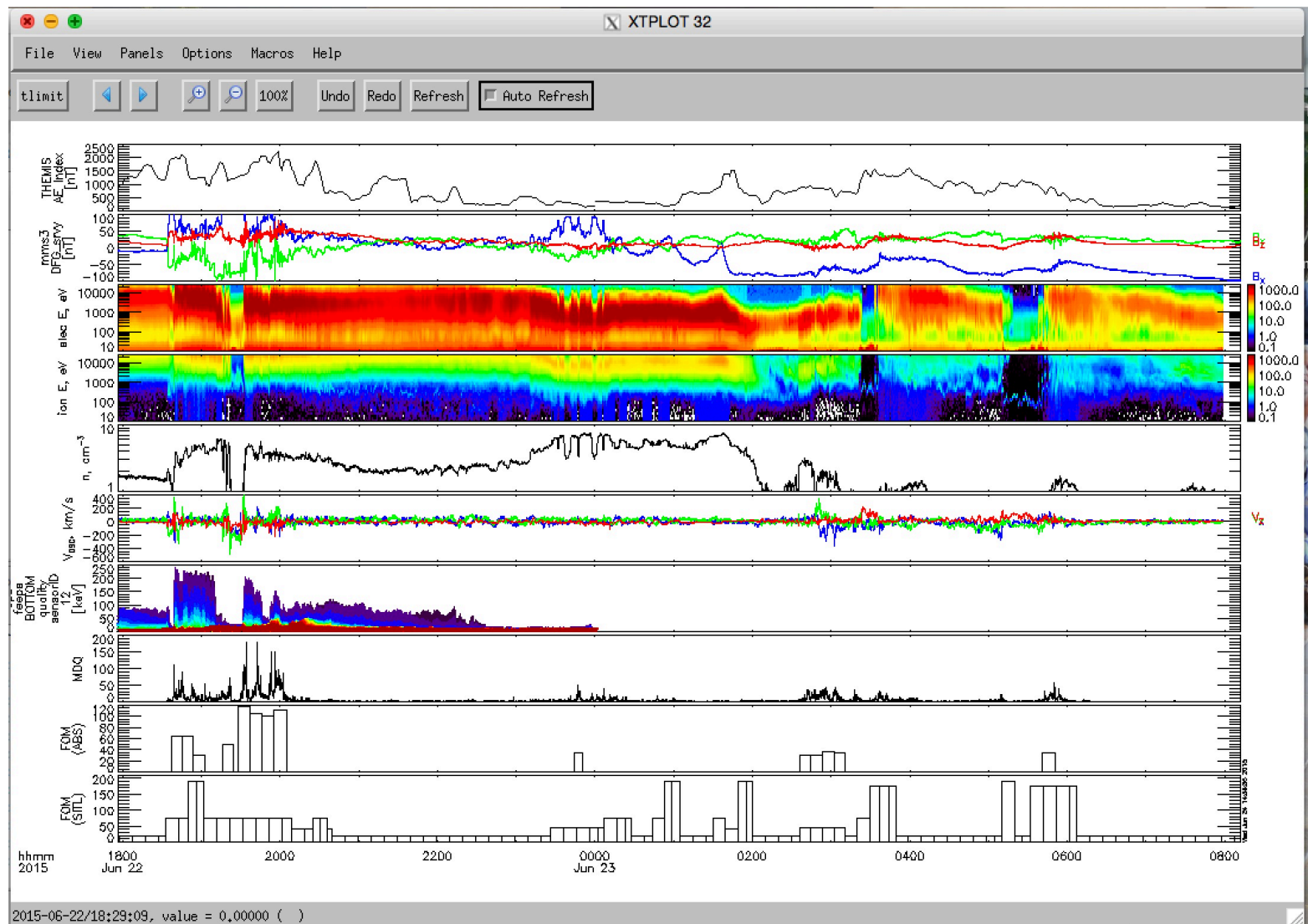
## Magnetospheric Multiscale (MMS) Mission Weekly Report - June 25, 2015 Mission Phase: Phase D-Commissioning

***MMS has exited the long eclipse period*** at apogee which extended thru June 21. Spacecraft power and thermal performance is well within predictions with ***no surprises during the long shadows***. Instrument commissioning activities were largely stood-down as planned during the eclipse period.

***MMS Instruments have been activated and commissioning activities are resuming.***

**MMS Science** during recent major solar event: During both the ***Van Allen Probes (VAP)-MMS cross-calibration interval on June 12*** and the June 22-23 MMS commissioning activity with the Fast Plasma Investigation (FPI), all MMS electromagnetic fields and energetic particle detector instruments were collecting excellent data. We saw EMIC ( electromagnetic ion cyclotron waves) at the same time that VAP was measuring particle fluxes on June 12 during a moderate solar sub-storm. ***On June 22-23 MMS happened to be taking full burst data with FPI during the most energetic solar sub-storm interval of this solar cycle.*** The science studies from just these two days seems very promising.

# Use of SITL (Scientist In The Loop) to check or override Automated Burst Selection



## **2015 Heliophysics Guest Investigator Program (ROSES B.4)**

Open Call (except no MMS)

202 Step-1 Proposals

### 4 Sub-Topic Areas

- Heliosphere
- Ionosphere-Thermosphere-Mesosphere
- Magnetosphere
- Solar

62 external reviewers, conflicts avoided

Results are going to Pls 6/30 - 7/2

Due date for Step-2 delayed from July 10 to July 31 to allow ~30 days between Step-1 notification and Step-2 submission

Delayed Step-2 due date has no impact on Step-2 decision timeline

## GI ROSES language modified for 2015 – adopted from Astrophysics

From ROSES 2015 B.4

In support of any H-GI proposal, ***investigations may employ theory, models, and data from other sources, as needed to interpret and analyze NASA's HSO data, but only as a secondary emphasis.*** However, in any such instance, the ***proposal must clearly demonstrate that the theory, models, and/or data in question are necessary for interpretation of the HSO data,*** and are not themselves the primary object of the investigation. Development of new models and theories is not solicited.

## **Potential Scenario for MMS/Guest Investigator**

**ROSES 2016:** Fully Open GI – Allow proposal pressure to determine relative funding for MMS related research

**ROSES 2017:** Special GI call for MMS (or MMS/HSO/Themis/GB coordination) ***if*** warranted, based on evaluation of response to ROSES 2016